

ABSTRACT

5 A welding method for manufacturing welded structures
having excellent properties to prevent the propagation of
brittle fracture occurring in welded joints,
characterized by the step of forming a repair weld having
a greater toughness than that of a butt weld and an outer
edge whose angle ϕ with respect to the longitudinal
direction of the butt weld is not less than 10 degrees
10 and not more than 60 degrees, by applying repair welding
to a region to arrest a brittle crack in a butt-welded
joint where a brittle crack is likely to propagate after
removing part of the butt-welded joint, in said region,
by gouging or machining.